

May 1999

22603-JER-0000-06000

(Rev. 1, July 22, 1999)

**CHARACTERIZATION REPORT
FORMER JEROMESVILLE
COMPRESSOR STATION
ASHLAND COUNTY, OHIO**



Prepared for

COLUMBIA GAS TRANSMISSION CORPORATION
Environmental Affairs-Remediation
P.O. Box 1273
1700 MacCorkle Avenue, SE
Charleston, West Virginia

Prepared by

Baker

Baker Environmental, Inc.
Coraopolis, Pennsylvania

2.0 ENVIRONMENTAL SETTING

2.1 Physical Setting

The Former Jeromesville CS is in an area of low to moderate topographic relief and appears not to be in a flood-prone area associated with the nearby intermittent stream. The CS is at an elevation of approximately 1,100 feet above mean sea level (msl). Stream base levels are approximately 1,000 feet above msl and surrounding ridges are greater than 1,200 feet above msl (USGS, 1978).

The operating portion of this CS (Figure 1-2) occupies approximately one quarter of an acre. It is a rectangular area approximately 80 feet by 150 feet, and is surrounded by a 4-foot high farm fence with a lockable gate. There are no buildings on site. The surface cover of the site is comprised of gravel and overgrown vegetation. Although the CS gently slopes to the southwest toward the intermittent stream, there does not appear to be a definitive drainage channel for surface water runoff toward the stream.

2.2 Climate

The portion of Ohio in which the CS is located receives mean annual precipitation of approximately 37 inches. Temperatures vary widely, with average lows during the winter months reaching 20 degrees Fahrenheit to average highs during the summer months reaching 81 degrees Fahrenheit. The greatest levels of precipitation (60% of the annual total) occur between April and September. The average seasonal snowfall is approximately 32 inches. (Soil Survey of Ashland County, Ohio, 1980).

2.3 Surface Water Hydrology

The site is located less than 100 feet northeast of an unnamed intermittent stream (refer to Figure 1-1) which flows south approximately two miles into the Jerome Fork (west of Jeromesville). The CS gently slopes to the southwest toward the unnamed intermittent stream. No prominent drainage channels or ditches are present between the CS and the stream.

2.4 Geology and Soils

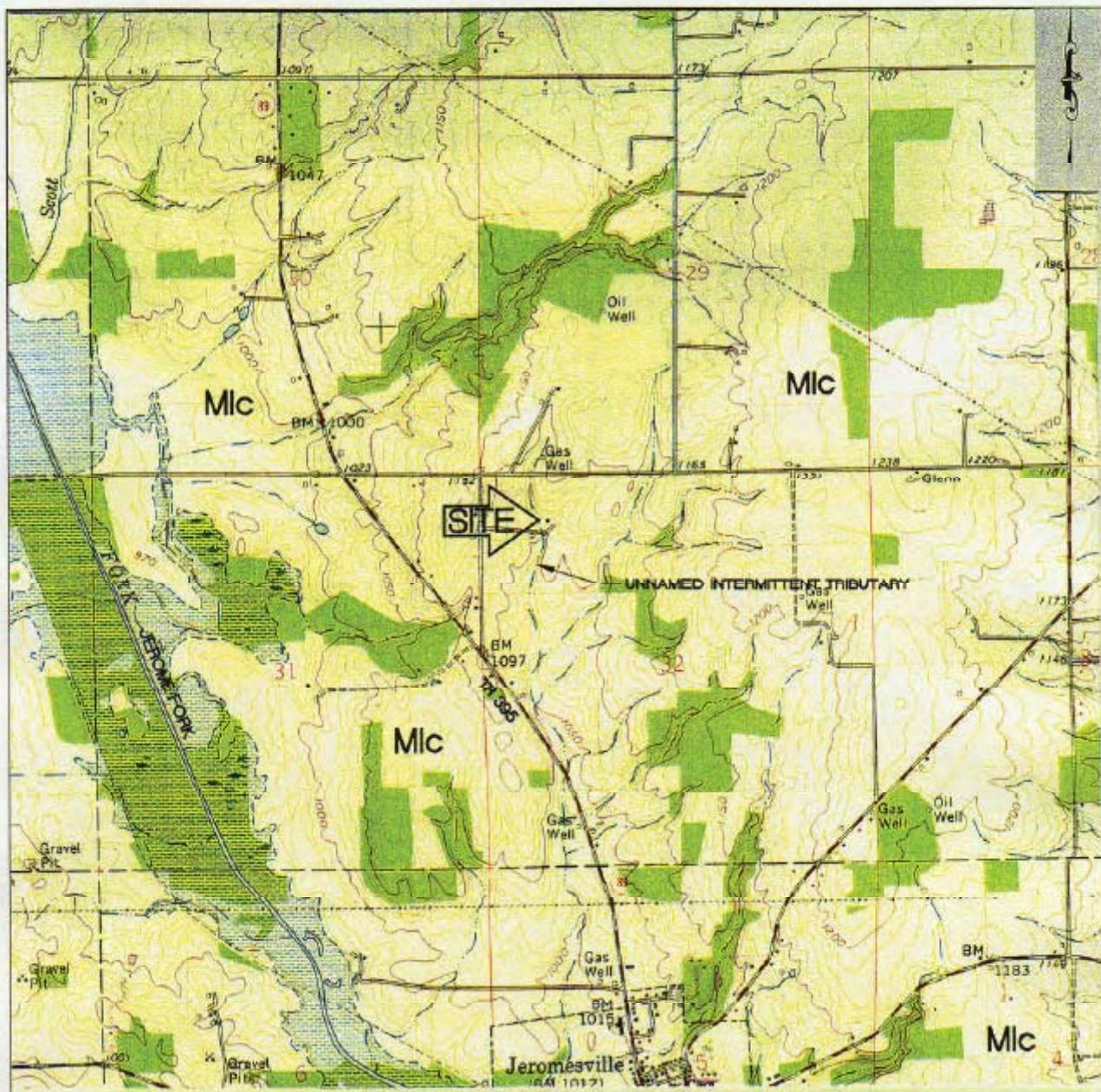
The Jeromesville Compressor Station is located on the glaciated, dissected Allegheny Plateau Physiographic Province (Figure 2-1). The bedrock of this region is of the Mississippian System/Logan and Cuyahoga Formations (undivided). This bedrock is sedimentary in origin, consisting mainly of sandstone, siltstone, and shale.

Soils at the CS are identified as the Canfield Silt Loam (CaC). This series typically consists of a moderately deep, moderately sloping, well drained soil on the upper part of major hillsides and on the side slopes of small natural drainage ways in the till plains. Soils are typically a dark brown silt loam to less than one foot below ground surface (bgs). Below this depth is a silt loam and firm loam to approximately three feet bgs, and a glacial till of loam texture to a depth of five feet bgs. Seasonal perched water lenses are common above the less permeable clay horizons in this area (Soil Survey of Ashland County, Ohio, 1980).

2.5 Hydrogeology and Groundwater Quality

In valley bottoms, useable quantities of groundwater are generally obtained from both shallow wells in unconsolidated deposits and/or deeper wells installed into bedrock formations. In other topographic areas, wells completed in bedrock or springs are a source of potable water supplies. Groundwater in the area occurs in the natural porosity of both unconsolidated glacial and bedrock formations within the Cuyahoga Group of the Allegheny Plateau Physiographic Province. Alluvium aquifers generally yields water in insufficient quantities for domestic use but small sand and gravel lenses, if encountered, may produce from three to eight gallons per minute (gpm). Most wells installed in bedrock aquifers produce sufficient water for domestic purposes.

Studies by state and federal agencies found that well yields in the area are typically between five and twenty gpm. Well depths typically range from approximately 45 to 165 feet bgs (Schmidt, 1979). Joints and openings along bedding planes yield most of the water in the Cuyahoga Group sandstones and shales. The CS does not have a potable water supply well on site.



UNDERLYING THE CS IS MISSISSIPPIAN SYSTEM/LOGAN AND CUYAHOGA FORMATIONS (UNDIVIDED) BEDROCK; (CONSISTING MAINLY OF SANDSTONE, SILSTONE, AND SHALE; THIN TO THICK BEDDING; 0 TO 650 FEET THICKNESS)(Mic)

SOURCE: U.S.G.S. 7.5 MINUTE
TOPOGRAPHIC MAP,
JEROMEVILLE QUADRANGLE, OHIO.

2000 0 1000 2000
1 inch = 2000 ft.



QUADRANGLE LOCATION

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FIGURE 2-1
SITE GEOLOGY
FORMER JEROMEVILLE COMPRESSOR STATION

COLUMBIA GAS TRANSMISSION CORPORATION
ASHLAND COUNTY, OHIO

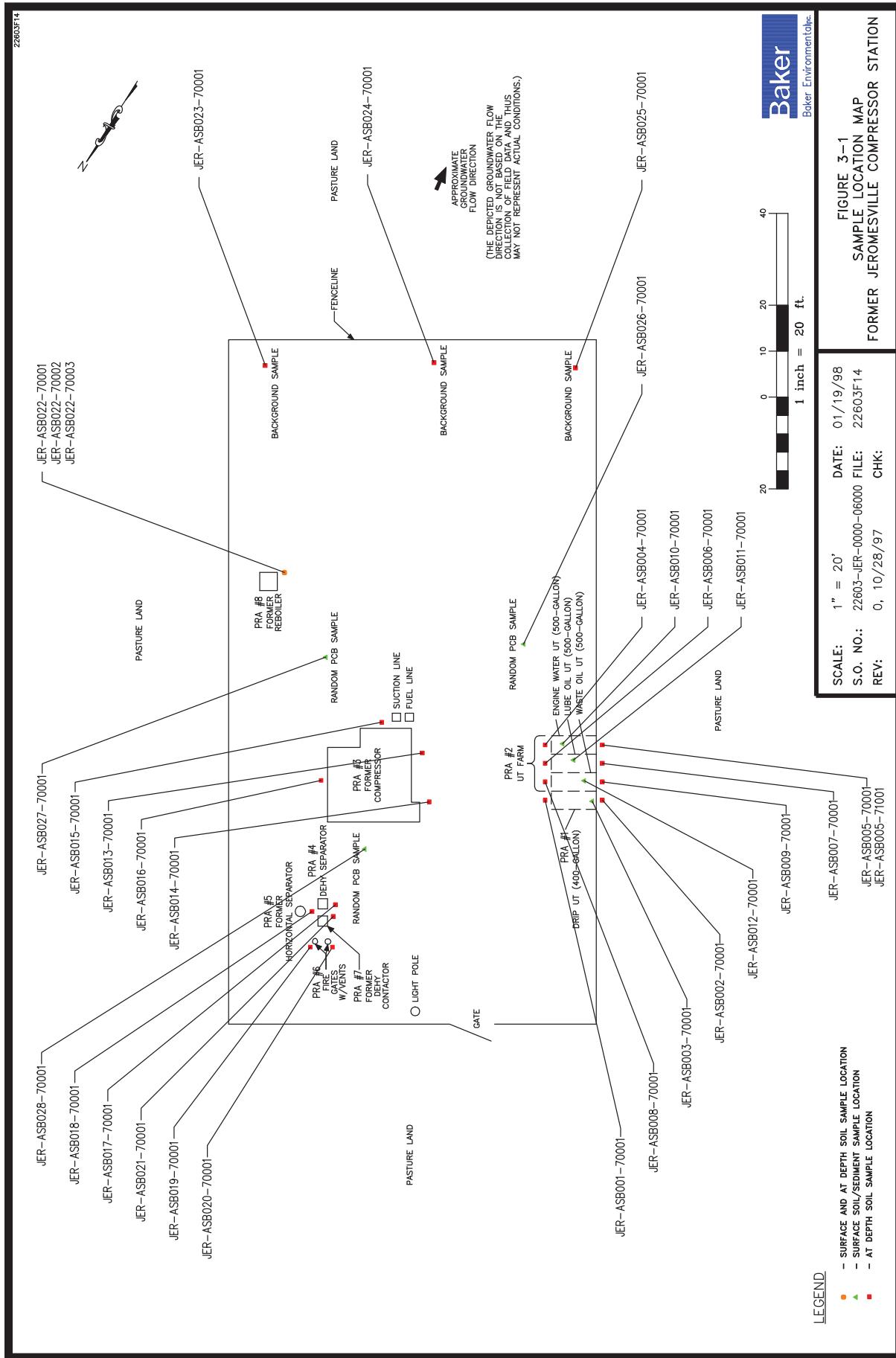


Table 4-3
Summary of Analytical Results

PRA	1				
PRA Description	PRA #1-DRIP UT				
Sample Type	Normal Sample	JER-ASB001-70001	JER-ASB002-70001	JER-ASB003-70001	
Sample Id	JER-ASB001-70001				
Depth - ft bgs	8 - 10		8 - 10	0 - 1	
Result Units	MG/KG	MG/KG	MG/KG	MG/KG	
Category	Analyte	Action Level	Result Flag	> CAL *	Result Flag
VOA	METHYLENE CHLORIDE	85			
BNA	DIESEL	5.8		41	ND
METAL	BARIUM, TOTAL	5500			
	CHROMIUM, TOTAL	230			
	NICKEL, TOTAL	1600			
	ARSENIC, TOTAL	.43			

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

ND indicates Non-Detect

Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

PRA	2				
PRA Description	PRA #2-UT FARM				
Sample Type	Field Duplicate (Rep)	Normal Sample			
Sample Id	JER-ASB005-71001	JER-ASB004-70001	JER-ASB005-70001	JER-ASB005-70001	JER-ASB005-70001
Depth - ft bgs	8 - 10	8 - 10	8 - 10	8 - 10	8 - 10
Result Units	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
Category	Analyte	Action Level	Result Flag	> CAL *	Result Flag
VOA	METHYLENE CHLORIDE	85			
BNA	DIESEL				
METAL	BARIUM, TOTAL	5500			
	CHROMIUM, TOTAL	230			
	NICKEL, TOTAL	1600			
	ARSENIC, TOTAL	.43			

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

ND indicates Non-Detect

Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

PRA						
PRA Description						
Sample Type						
Sample Id	JER-ASB006-70001	JER-ASB007-70001	JER-ASB008-70001	JER-ASB008-70001		
Depth - ft bgs	8 - 10	8 - 10	8 - 10	8 - 10		
Result Units	MG/KG	MG/KG	MG/KG	MG/KG		
Category	Analyte	Action Level	Result Flag	> CAL*	Result Flag	> CAL*
VOA	METHYLENE CHLORIDE	85				
BNA	DIESEL	ND		15		ND
METAL	BARIUM, TOTAL	5500				46.7
	CHROMIUM, TOTAL	230				15.1
	NICKEL, TOTAL	1600				23.9
	ARSENIC, TOTAL	.43				11.7
						X

Notes:

`< "CAL" equals "X"` when reported value is above characterization action level for this locale.

ND indicates Nan Doseat.

ND indicates Non-Detect.

Lysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

PRA	
PRA Description	
Sample Type	
Sample Id	JER-ASB009-70001
Depth - ft bgs	8 - 10
Result Units	MG/KG
Category	Analyte
	Action Level
VOA	METHYLENE CHLORIDE
BNA	DIESEL
METAL	BARIUM, TOTAL
	CHROMIUM, TOTAL
	NICKEL, TOTAL
	ARSENIC, TOTAL
	Result Flag
	> CAL *
VOA	85
BNA	6.9
METAL	5500
	230
	1600
	.43
	Result Flag
	> CAL *
VOA	0.006
BNA	ND
METAL	56.5
	18.4
	30.1
	X
	Result Flag
	> CAL *

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

ND indicates Non-Detect

Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

PRA		3	
PRA Description		PRA #3-FORMER COMPRESSOR	
Sample Type		Normal Sample	
Sample Id	JER-ASB012-70001	JER-ASB013-70001	JER-ASB014-70001
Depth - ft bgs	0 . 1	4 . 5	4 . 5
Result Units	MG/KG	MG/KG	MG/KG
Category	Analyte	Action Level	Result Flag
VOA	METHYLENE CHLORIDE	85	ND
BNA	DIESEL		550
METAL	BARIUM, TOTAL	5500	34.4
	CHROMIUM, TOTAL	230	11.2
	NICKEL, TOTAL	1600	15.7
	ARSENIC, TOTAL	.43	11.5 X

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

ND indicates Non-Detect

Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

PRA		4						
PRA Description		PRA #4-DEHY SEPARATOR						
Sample Type		Normal Sample						
Sample Id	JER-ASB015-70001	JER-ASB016-70001						
Depth - ft bgs	4 . 5	4 . 5						
Result Units	MG/KG	MG/KG						
Category	Analyte	Action Level	Result Flag	> CAL *	Result Flag	> CAL *	Result Flag	> CAL *
VOA	METHYLENE CHLORIDE	85						
BNA	DIESEL		ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	CHROMIUM, TOTAL	230						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43						

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

ND indicates Non-Detect

Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

PRA	5	6						
PRA Description	PRA #5-FORMER HORIZONTAL	PRA #6-FIRE GATES W/VENTS (2)						
Sample Type	Normal Sample	Normal Sample						
Sample Id	JER-ASB018-70001	JER-ASB019-70001						
Depth - ft bgs	4 . 5	4 . 5						
Result Units	MG/KG	MG/KG						
Category	Analyte	Action Level	Result Flag	> CAL *	Result Flag	> CAL *	Result Flag	> CAL *
VOA	METHYLENE CHLORIDE	85						
BNA	DIESEL		ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	CHROMIUM, TOTAL	230						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43						

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

ND indicates Non-Detect

Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

PRA	7	8						
PRA Description	PRA #7-CONTACTOR	PRA #8-FORMER REBOILER						
Sample Type	Normal Sample	Normal Sample						
Sample Id	JER-ASB021-70001	JER-ASB022-70001						
Depth - ft bgs	4 . 5	0 . 1						
Result Units	MG/KG	MG/KG						
Category	Analyte	Action Level	Result Flag	> CAL *	Result Flag	> CAL *	Result Flag	> CAL *
VOA	METHYLENE CHLORIDE	85						
BNA	DIESEL		ND		ND		ND	
METAL	BARIUM, TOTAL	5500						
	CHROMIUM, TOTAL	230						
	NICKEL, TOTAL	1600						
	ARSENIC, TOTAL	.43						

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

ND indicates Non-Detect

Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

PRA		9	
PRA Description		PRA #9-BACKGROUND SAMPLES	
Sample Type		Normal Sample	
Sample Id	JER-ASB022-70003	JER-ASB023-70001	JER-ASB024-70001
Depth - ft bgs	4 . 5	1 . 3	1 . 3
Result Units	MG/KG	MG/KG	MG/KG
Category	Analyte	Action Level	Result Flag
VOA	METHYLENE CHLORIDE	85	> CAL *
BNA	DIESEL	ND	ND
METAL	BARIUM, TOTAL	5500	45.6
	CHROMIUM, TOTAL	230	17.9
	NICKEL, TOTAL	1600	14.2
	ARSENIC, TOTAL	.43	17.7
			X
			21.1
			X

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

ND indicates Non-Detect

Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

PRA	10	PRA #10-RANDOM PCB SAMPLES					
Sample Type	Normal Sample						
Sample Id	JER-ASB025-70001						
Depth - ft bgs	1.3	JER-ASB026-70001	JER-ASB027-70001				
Result Units	MG/KG	0 . 5	0 . 5				
Category	Analyte	Action Level	Result Flag	> CAL *			
VOA	METHYLENE CHLORIDE	85	ND				
BNA	DIESEL		ND				
METAL	BARIUM, TOTAL	5500	41.6				
	CHROMIUM, TOTAL	230	17.8				
	NICKEL, TOTAL	1600	25.2				
	ARSENIC, TOTAL	.43	24.1	X			

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

ND indicates Non-Detect

Blank cells in result column indicate an analysis was not performed for that analyte.

Table 4-3
Summary of Analytical Results

PRA			
PRA Description			
Sample Type			
Sample Id	JER-ASB028-70001		
Depth - ft bgs	0 .5		
Result Units	MG/KG		
Category	Analyte	Action Level	Result Flag
VOA	METHYLENE CHLORIDE	85	> CAL*
BNA	DIESEL		
METAL	BARIUM, TOTAL	5500	
	CHROMIUM, TOTAL	230	
	NICKEL, TOTAL	1600	
	ARSENIC, TOTAL	.43	

Notes:

* "> CAL" equals "X" when reported value is above characterization action level for this locale.

J flag - Numerical value is an estimated quantity.

ND indicates Non-Detect

Blank cells in result column indicate an analysis was not performed for that analyte.

(0.43 mg/kg) with concentrations of 17.7 mg/kg, 21.1 mg/kg, and 24.1 mg/kg, respectively. As provided for in the CWP, the highest concentration of a constituent detected in the background samples or the value calculated in Appendix G is used to establish the background concentration for this constituent at the CS. The calculated background value for arsenic (CBVA) at the Former Jeromesville CS is 41.93 mg/kg, as presented in Appendix G. This value is used to evaluate the results of the remaining PRAs.

Because all three of the background borings are believed to be in locations not affected by compressor station operations, it is believed that the metal concentrations observed in the three background samples are indigenous to soils in the area.

4.3.2 Random PCB Sampling Results

Random PCB soil samples were collected from 0 to 6 inches bgs at three locations within the limits of compressor station operations. These samples (JER-ASB026-70001, JER-ASB027-70001, and JER-ASB028-70001) were collected at random locations to act as a check for PCB containing soils throughout the compressor station. All three of the random soil samples exhibited no positive detection of PCB constituents.

4.3.3 Soil Potential Release Areas

PRA #1 400-Gallon Drip UT

One boring was advanced at each end of the Drip UT (2 borings total) to a depth of 10 feet bgs. The northeast boring had one soil sample (JER-ASB001-70001) collected at a depth of 8 to 10 feet bgs and the southwest boring had one soil sample (JER-ASB002-70001) collected at a depth of 8 to 10 feet bgs. In addition, a surface soil fill port sample (JER-ASB003-70001) also was collected at this PRA.

Laboratory analytical results of the three soil samples collected at this PRA indicated no evidence of BTEX, TPH for Gasoline Range Organics (TPH-GRO), or PCB constituents. However, TPH for Diesel Range Organics (TPH-DRO) was detected in the two subsurface soil samples at concentrations of 5.8 mg/kg and 41 mg/kg, respectively. Elevated PID responses were not observed during field

screening activities and evidence of free product or soil staining was not observed during sample collection at this PRA.

PRA #2 (500-Gallon Engine Water, 500-Gallon Lube Oil, and 500-Gallon Waste Oil) UT Farm

Two borings were advanced to a depth of 10 feet bgs at each end of the three UTs in the UT Farm (six borings total). All six subsurface soil samples were collected from 8 to 10 feet bgs.

- One subsurface soil sample was collected from the northeastern boring (JER-ASB004-70001) and the southwestern boring (JER-ASB005-70001) associated with the Engine Water UT. One quality control duplicate soil sample (JER-ASB005-71001) also was collected at this UT.
- One subsurface soil sample was collected from the northeastern boring (JER-ASB006-70001) and the southwestern boring (JER-ASB007-70001) associated with the Lube Oil UT.
- One subsurface soil sample was collected from the northeastern boring (JER-ASB008-70001) and the southwestern boring (JER-ASB009-70001) associated with the Waste Oil UT.

In addition, one surface soil fill port sample was collected at the Engine Water UT fill port (JER-ASB010-70001), the Lube Oil UT fill port (JER-ASB011-70001), and the Waste Oil UT fill port (JER-ASB012-70001).

Laboratory analytical results for soil samples associated with the Engine Water UT indicated no evidence of glycol constituents. Laboratory analytical results of the samples associated with the Lube Oil UT indicated no evidence of BTEX or TPH-GRO constituents. TPH-DRO was, however, detected in sample JER-ASB007-70001 at a concentration of 15 mg/kg. It should be noted that elevated PID responses were not observed during field screening activities and evidence of free product or soil staining was not observed during sample collection at this PRA. Laboratory analytical results of soil samples associated with the Waste Oil UT indicated no evidence of BTEX, TPH-GRO, PCB, or SVOC constituents.

The only VOC detected was methylene chloride below the CAL (85 mg/kg) in sample JER-ASB009-70001 at a concentration of 6 mg/kg. TPH-DRO also was detected in this sample (6.9 mg/kg) and fill port sample JER-ASB012-70001 (550 mg/kg).

In addition, various metals were detected below CALs with the exception of arsenic in the three samples (JER-ASB008-70001, JER-ASB009-70001, and JER-ASB012-70001) associated with the Waste Oil UT. Arsenic was detected above CALs at concentrations of 11.7 mg/kg, 15.6 mg/kg and 11.5 mg/kg, respectively but below the maximum detected arsenic value of 24.1 mg/kg and the CBVA of 41.93 mg/kg.

PRA #3 Former Compressor

Four borings were advanced adjacent to the Former Compressor concrete slab to a depth of 5 feet bgs with soil samples collected at depths of 4 to 5 feet bgs. Two soil samples (JER-ASB013-70001 and JER-ASB014-70001) were collected from the southwestern, down gradient side of the slab, one soil sample (JER-ASB015-70001) was collected from the southeastern side of the slab, and one soil sample (JER-ASB016-70001) was collected from the northeastern side of the slab. Laboratory analytical results of all four soil samples indicated no evidence of BTEX or TPH constituents.

PRA #4 Dehy Separator

One boring was advanced adjacent to the Dehy Separator to a depth of five feet bgs. One subsurface soil sample (JER-ASB017-70001) was collected from 4 to 5 feet bgs. Laboratory analytical results of the soil sample indicated no evidence of BTEX or TPH constituents.

PRA #5 Former Horizontal Separator

One boring was advanced adjacent to the Former Horizontal Separator to a depth of five feet bgs. One subsurface soil sample (JER-ASB018-70001) was collected from 4 to 5 feet bgs. Laboratory analytical results of the soil sample indicated no evidence of BTEX or TPH constituents.

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APPENDIX F

CS Boring Logs

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TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Jeromesville Compressor Station
 SO NO.: 22603-JER BORING NO.: PRA1-Boring A
 COORDINATES: EAST: NORTH:
 ELEVATION: SURFACE: TOP OF PVC CASING:

Rig:	Geoprobe				Date	Progress (Ft.)	Weather		Depth to Water (Ft.)
	MC Liners	Casing	Augers	Core Barrel					
Size (ID)	1-5/8" I.D.	---	--	--	5/20/97	0.0 - 10.0			--
Length	4.0 feet	---	--	--					
Type	---	---	--	--					
Hammer Wt.	---	---	--	--					
Fall	---	---	--	--					

Remarks: Drip UT (BTEX, PCBs, TPH)

SAMPLE TYPE						WELL INFORMATION			
Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft., %)	Lab ID	PID (ppm)		Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)
1									
2									
3									
4									
4.0									
5									
6									
7									
8							8.0		
8.0									
9		S-1		JER-ASB-001-70001		SILTY GRAVEL, trace small gravel; brown; dry			
10	10.0					Bottom of Boring at 10.0'	10.0		

DRILLING CO.: Subsurface, Inc.
 DRILLER: (b) (4)

BAKER REP.: (b) (4)
 BORING NO.: PRA1-Boring A SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Jeromesville Compressor Station

SO NO.: 22603-JER

BORING NO.:

PRA1-Boring B

COORDINATES: EAST:

NORTH:

ELEVATION: SURFACE:

TOP OF PVC CASING:

Rig: Geoprobe					Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
	MC Liners	Casing	Augers	Core Barrel				
Size (ID)	1-5/8" I.D.	---	--	--	5/20/97	0.0 - 10.5		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	---	--	--				
Fall	---	---	--	--				

Remarks: Drip UT (BTEX, PCBs, TPH)

SAMPLE TYPE						WELL INFORMATION			
						Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)
S = Split Spoon A = Auger T = Shelby Tube W = Wash R = Air Rotary C = Core D = Denison P = Piston N = No Sample									
Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft., %)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail		Elevation (Ft. MSL)
1	N								
2									
3									
4	4.0								
5									
6	N								
7									
8	8.0							8.0	
9	S-1		JER-ASB-002-70001			GRAVELLY COARSE SAND; wet			
10	10.0					Confining Clay at 10.5'	10.0		
	10.5	N				Bottom of Boring at 10.5'			

DRILLING CO.: Subsurface, Inc.

DRILLER: (b) (4)

BAKER REP.: (b) (4)

BORING NO.: PRA1-Boring B

SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Jeromesville Compressor Station

SO NO.: 22603-JER

BORING NO.:

PRA2-Boring A

COORDINATES: EAST:

NORTH:

ELEVATION: SURFACE:

TOP OF PVC CASING:

Rig: Geoprobe	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	5/20/97	0.0 - 10.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: Waste Oil UT (Table I)

SAMPLE TYPE						WELL INFORMATION			
						Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)
		S = Split Spoon	A = Auger						
		T = Shelby Tube	W = Wash						
		R = Air Rotary	C = Core						
		D = Denison	P = Piston						
		N = No Sample							
Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail		Elevation (Ft. MSL)
1	N				:				
2									
3									
4	4.0								
5									
6	N								
7									
8	8.0							8.0	
9	S-1		JER-ASB-008-70001			CLAY; brown; stiff; dry (wet above 8')			
10	10.0							10.0	
						Bottom of Boring at 10.0'			

DRILLING CO.: Subsurface, Inc.

DRILLER: (b) (4)

BAKER REP.: (b) (4)

BORING NO.: PRA2-Boring A

SHEET 1 OF 1

Baker**Baker Environmental****TEST BORING RECORD**

PROJECT: Site Characterization at Columbia Gas Transmission - Former Jeromesville Compressor Station

SO NO.: 22603-JER

BORING NO.:

PRA2-Boring B

COORDINATES: EAST:

NORTH:

ELEVATION: SURFACE:

TOP OF PVC CASING:

Rig: Geoprobe					Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
	MC Liners	Casing	Augers	Core Barrel				
Size (ID)	1-5/8" I.D.	---	--	--	5/20/97	0.0 - 10.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	---	--	--				
Fall	---	---	--	--				

Remarks: Waste Oil UT (Table 1)

SAMPLE TYPE						WELL INFORMATION			
						Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)
S = Split Spoon A = Auger T = Shelby Tube W = Wash R = Air Rotary C = Core D = Denison P = Piston N = No Sample									
Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft., %)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail		Elevation (Ft. MSL)
1									
2	N								
3									
4	4.0								
5									
6	N								
7									
8	8.0						8.0		
9	S-1		JER-ASB-009-70001			CLAY; brown; stiff; dry (wet above 8')			
10	10.0						10.0		
						Bottom of Boring at 10.0'			

DRILLING CO.: Subsurface, Inc.

DRILLER: (b) (4)

BAKER REP.: (b) (4)

BORING NO.: PRA2-Boring B

SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Jeromesville Compressor Station

SO NO.: 22603-JER

BORING NO.:

PRA2-Boring C

COORDINATES: EAST: _____

NORTH: _____

ELEVATION: SURFACE: _____

TOP OF PVC CASING: _____

Rig: Geoprobe					Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
	MC Liners	Casing	Augers	Core Barrel				
Size (ID)	1-5/8" I.D.	---	--	--	5/20/97	0.0 - 10.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	---	--	--				
Fall	---	---	--	--				

Remarks: Lube Oil (TPH, BTEX)

SAMPLE TYPE						WELL INFORMATION			
Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)	Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)
1		N							
2									
3									
4	4.0								
5									
6		N							
7									
8	8.0								
9		S-1		JER-ASB-006-70001		CLAY, trace gravel; brown; tight; dry			
10	10.0						10.0		
						Bottom of Boring at 10.0'			

DRILLING CO.: Subsurface, Inc.

DRILLER: (b) (4)

BAKER REP.: (b) (4)

BORING NO.: PRA2-Boring C

SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Jeromesville Compressor Station

SO NO.: 22603-JER

BORING NO.:

PRA2-Boring D

COORDINATES: EAST:

NORTH:

ELEVATION: SURFACE:

TOP OF PVC CASING:

Rig: Geoprobe					Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
	MC Liners	Casing	Augers	Core Barrel				
Size (ID)	1-5/8" I.D.	---	--	--	5/20/97	0.0 - 10.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	---	--	--				
Fall	---	---	--	--				

Remarks: Lube Oil (TPH, BTEX)

SAMPLE TYPE						WELL INFORMATION			
						Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)
S = Split Spoon A = Auger T = Shelby Tube W = Wash R = Air Rotary C = Core D = Denison P = Piston N = No Sample									
Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft., %)	Lab ID	PID (ppm)	Visual Description	Well Installation Detail		Elevation (Ft. MSL)
1		N							
2		N							
3		N							
4	4.0	N							
5		N							
6		N							
7		N							
8	8.0	S-1		JER-ASB-007-70001		CLAY, trace gravel; brown; tight; dry, wet above	8.0		
9									
10	10.0					Bottom of Boring at 10.0'	10.0		

DRILLING CO.: Subsurface, Inc.

(b) (4)

BAKER REP.: (b) (4)

BORING NO.: PRA2-Boring D

SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Jeromesville Compressor Station

SO NO.: 22603-JER

BORING NO.:

PRA2-Boring E

COORDINATES: EAST:

NORTH:

ELEVATION: SURFACE:

TOP OF PVC CASING:

Rig: Geoprobe					Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
	MC Liners	Casing	Augers	Core Barrel				
Size (ID)	1-5/8" I.D.	---	--	--	5/20/97	0.0 - 10.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: Engine Water (Glycol)

SAMPLE TYPE						WELL INFORMATION			
						Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)
S = Split Spoon A = Auger T = Shelby Tube W = Wash R = Air Rotary C = Core D = Denison P = Piston N = No Sample									
Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft., %)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail		Elevation (Ft. MSL)
1									
2	N								
3									
4	4.0								
5									
6	N								
7									
8	8.0							8.0	
9	S-1		JER-ASB-004-70001			CLAY; brown; tight; dry (wet above sample)			
10	10.0							10.0	
						Bottom of Boring at 10.0'			

DRILLING CO.: Subsurface, Inc.

DRILLER: (b) (4)

BAKER REP.: (b) (4)

BORING NO.: PRA2-Boring E

SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Jeromesville Compressor Station

SO NO.: 22603-JER

BORING NO.:

PRA2-Boring F

COORDINATES: EAST:

NORTH:

ELEVATION: SURFACE:

TOP OF PVC CASING:

Rig: Geoprobe					Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
	MC Liners	Casing	Augers	Core Barrel				
Size (ID)	1-5/8" I.D.	---	--	--	5/20/97	0.0 - 10.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	---	--	--				
Fall	---	---	--	--				

Remarks: Engine Water (Glycol)

SAMPLE TYPE					WELL INFORMATION			
Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft., %)	Lab ID	PID (ppm)	Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)
1								
2								
3								
4	4.0	N						
5								
6								
7								
8	8.0	N						
9								
10	10.0	S-1	JER-ASB-005-70001		CLAY; brown; tight; dry (wet above sample) Collect Duplicate (JER-ASB005-71001) and MS/MSD at S-1	8.0	10.0	
					Bottom of Boring at 10.0'			

(b) (4)

DRILLING CO.: Subsurface, Inc.

DRILLER: (b) (4)

BAKER REP.:

BORING NO.: PRA2-Boring F

SHEET 1 OF 1



Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Jeromesville Compressor Station

SO NO.: 22603-JER

BORING NO.:

PRA3-Boring A

COORDINATES:

EAST: _____

NORTH: _____

ELEVATION:

SURFACE: _____

TOP OF PVC CASING: _____

Rig: Geoprobe					Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
	MC Liners	Casing	Augers	Core Barrel				
Size (ID)	1-5/8" I.D.	---	--	--	5/20/97	0.0 - 5.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	---	--	--				
Fall	---	---	--	--				

Remarks: Engine Slab (TPH, BTEX)

SAMPLE TYPE						WELL INFORMATION			
						Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)
		S = Split Spoon A = Auger							
		T = Shelby Tube W = Wash							
		R = Air Rotary C = Core							
		D = Denison P = Piston							
		N = No Sample							
Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft., %)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail		Elevation (Ft. MSL)
1	N					SILTY CLAY; brown; moist			
2						Collect MS/MSD at S-1			
3						Bottom of Boring 5.0'			
4	4.0								
5	5.0	S-1	JER-ASB-013-70001	0.0					
6									
7									
8									
9									
10									

DRILLING CO.: Subsurface, Inc.

DRILLER: (b) (4)

BAKER REP.: (b) (4)

BORING NO.: PRA3-Boring A

SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Jeromesville Compressor Station

SO NO.: 22603-JER

BORING NO.:

PRA3-Boring B

COORDINATES: EAST: _____

NORTH: _____

ELEVATION: SURFACE: _____

TOP OF PVC CASING: _____

Rig: Geoprobe		MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	--	5/20/97	0.0 - 5.0		--
Length	4.0 feet	---	--	--	--				
Type	---	---	--	--	--				
Hammer Wt.	---	---	--	--	--				
Fall	---	---	--	--	--				

Remarks: Engine Slab (TPH, BTEX)

<u>SAMPLE TYPE</u> S = Split Spoon A = Auger T = Shelby Tube W = Wash R = Air Rotary C = Core D = Denison P = Piston N = No Sample						<u>WELL INFORMATION</u>			
						Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)
Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft., %)	Lab ID	PID (ppm)		Visual Description		Well Installation Detail	
1									
2		N							
3									
4	4.0							4.0	
5	5.0	S-1	JER-ASB-014-70001	0.0		SILTY CLAY; brown; moist		5.0	
6						Bottom of Boring 5.0'			
7									
8									
9									
10									

DRILLING CO.: Subsurface, Inc.

DRILLER: (b) (4)

BAKER REP.: (b) (4)

BORING NO.: PRA3-Boring B

SHEET 1 OF 1

Baker**Baker Environmental****TEST BORING RECORD**

PROJECT: Site Characterization at Columbia Gas Transmission - Former Jeromesville Compressor Station

SO NO.: 22603-JER

BORING NO.:

PRA3-Boring C

COORDINATES: EAST:

NORTH:

ELEVATION: SURFACE:

TOP OF PVC CASING:

Rig: Geoprobe					Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
	MC Liners	Casing	Augers	Core Barrel				
Size (ID)	1-5/8" I.D.	---	--	--	5/20/97	0.0 - 5.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	---	--	--				
Fall	---	---	--	--				

Remarks: Engine Slab (TPH, BTEX)

SAMPLE TYPE					WELL INFORMATION			
S = Split Spoon A = Auger T = Shelby Tube W = Wash R = Air Rotary C = Core D = Denison P = Piston N = No Sample					Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)
Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft., %)	Lab ID	PID (ppm)	Visual Description	Well Installation Detail	Elevation (Ft. MSL)
1		N						
2								
3								
4	4.0	S-1		JER-ASB-015-70001	0.0	SILTY CLAY; brown; moist	4.0	
5	5.0					Bottom of Boring 5.0'	5.0	
6								
7								
8								
9								
10								

DRILLING CO.: Subsurface, Inc.

DRILLER: (b) (4)

BAKER REP.: (b) (4)

BORING NO.: PRA3-Boring C

SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Jeromesville Compressor Station

SO NO.: 22603-JER

BORING NO.:

PRA3-Boring D

COORDINATES: EAST:

NORTH:

ELEVATION: SURFACE:

TOP OF PVC CASING:

Rig: Geoprobe					Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
	MC Liners	Casing	Augers	Core Barrel				
Size (ID)	1-5/8" I.D.	---	--	--	5/21/97	0.0 - 5.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	---	--	--				
Fall	---	---	--	--				

Remarks: Engine Slab (TPH, BTEX)

SAMPLE TYPE					WELL INFORMATION				
Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft., %)	Lab ID	PID (ppm)	Visual Description	Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)
1	N								
2									
3									
4	4.0								
5	5.0	S-1	JER-ASB-016-70001	0.0	SILTY CLAY; brown; moist				
6					Bottom of Boring 5.0'				
7									
8									
9									
10									

DRILLING CO.: Subsurface, Inc.

DRILLER: (b) (4)

BAKER REP.: (b) (4)

BORING NO.: PRA3-Boring D

SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Jeromesville Compressor Station

SO NO.: 22603-JER

BORING NO.:

PRA4-Boring A

COORDINATES: EAST:

NORTH:

ELEVATION: SURFACE:

TOP OF PVC CASING:

Rig: Geoprobe	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	---	---	5/21/97	0.0 - 5.0		--
Length	4.0 feet	---	---	---				
Type	---	---	---	---				
Hammer Wt.	---	---	---	---				
Fall	---	---	---	---				

Remarks: Dehy Separator (TPH, BTEX)

SAMPLE TYPE						WELL INFORMATION			
S = Split Spoon A = Auger T = Shelby Tube W = Wash R = Air Rotary C = Core D = Denison P = Piston N = No Sample						Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)
Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft., %)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail	Elevation (Ft. MSL)	
1	N								
2									
3									
4									
4.0	S-1		JER-ASB-017-70001			SANDY CLAY; brown; moist			
5.0									
5.0						Bottom of Boring 5.0'			
6									
7									
8									
9									
10									

DRILLING CO.: Subsurface, Inc.

DRILLER: (b) (4)

BAKER REP.: (b) (4)

BORING NO.: PRA4-Boring A

SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Jeromesville Compressor Station

SO NO.: 22603-JER

BORING NO.:

PRA5-Boring A

COORDINATES: EAST:

NORTH:

ELEVATION: SURFACE:

TOP OF PVC CASING:

Rig: Geoprobe	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	5/21/97	0.0 - 5.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	---	--	--				
Fall	---	---	--	--				

Remarks: Horizontal Dehy Separator (TPH, BTEX)

SAMPLE TYPE					WELL INFORMATION			
					Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)
S = Split Spoon	A = Auger	T = Shelby Tube	W = Wash	R = Air Rotary	C = Core			
D = Denison	P = Piston	N = No Sample						
Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft., %)	Lab ID	PID (ppm)	Visual Description	Well Installation Detail	Elevation (Ft. MSL)	
1								
2								
3								
4	4.0							
5	5.0	S-1	JER-ASB-018-70001		SANDY CLAY; brown; moist	4.0		
6					Bottom of Boring 5.0'	5.0		
7								
8								
9								
10								

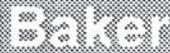
DRILLING CO.: Subsurface, Inc.

DRILLER: (b) (4)

BAKER REP.: (b) (4)

BORING NO.: PRA5-Boring A

SHEET 1 OF 1



Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Jeromesville Compressor Station

SO NO.: 22603-JER

BORING NO.:

PRA6-Boring A

COORDINATES: EAST:

NORTH:

ELEVATION: SURFACE:

TOP OF PVC CASING:

Rig: Geoprobe	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	---	--	--	5/21/97	0.0 - 5.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	--	--	--				
Fall	---	--	--	--				

Remarks: Fire Gates (TPH, BTEX)

SAMPLE TYPE					WELL INFORMATION			
					Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)
		S = Split Spoon A = Auger		T = Shelby Tube W = Wash				
		R = Air Rotary C = Core		D = Denison P = Piston				
		N = No Sample						
Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft.,%)	Lab ID	PID (ppm)	Visual Description	Well Installation Detail	Elevation (Ft. MSL)	
1		N						
2								
3								
4	4.0							
5	5.0	S-1	JER-ASB-019-70001		SANDY CLAY; brown; moist to wet	4.0		
					Bottom of Boring 5.0'	5.0		
6								
7								
8								
9								
10								

DRILLING CO.: Subsurface, Inc.

DRILLER: (b) (4)

BAKER REP.: (b) (4)

BORING NO.: PRA6-Boring A

SHEET 1 OF 1

Baker**Baker Environmental****TEST BORING RECORD**

PROJECT: Site Characterization at Columbia Gas Transmission - Former Jeromesville Compressor Station

SO NO.: 22603-JER

BORING NO.:

PRA6-Boring B

COORDINATES: EAST:

NORTH:

ELEVATION: SURFACE:

TOP OF PVC CASING:

Rig: Geoprobe					Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
	MC Liners	Casing	Augers	Core Barrel				
Size (ID)	1-5/8" I.D.	---	--	--	5/21/97	0.0 - 5.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	---	--	--				
Fall	---	---	--	--				

Remarks: Fire Gates (TPH, BTEX)

SAMPLE TYPE					WELL INFORMATION				
Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft., %)	Lab ID	PID (ppm)	Visual Description	Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)
1	N								
2									
3									
4	4.0								
5	5.0	S-1	JER-ASB-020-70001		SANDY CLAY; brown; moist to wet				
					Bottom of Boring 5.0'				
6									
7									
8									
9									
10									

DRILLING CO.: Subsurface, Inc.

DRILLER: (b) (4)

BAKER REP.: (b) (4)

BORING NO.: PRA6-Boring B

SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Jeromesville Compressor Station

SO NO.: 22603-JER

BORING NO.:

PRA7-Boring A

COORDINATES: EAST:

NORTH:

ELEVATION: SURFACE:

TOP OF PVC CASING:

Rig: Geoprobe					Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
	MC Liners	Casing	Augers	Core Barrel				
Size (ID)	1-5/8" I.D.	---	--	--	5/21/97	0.0 - 5.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	---	--	--				
Fall	---	---	--	--				

Remarks: Contactor (TPH, BTEX)

SAMPLE TYPE					WELL INFORMATION				
Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft., %)	Lab ID	PID (ppm)	Visual Description	Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)
1	N								
2									
3									
4	4.0								
5	5.0	S-1	JER-ASB-021-70001	0.0	SANDY CLAY; brown; moist				
					Bottom of Boring 5.0'				
6									
7									
8									
9									
10									

DRILLING CO.: Subsurface, Inc.

DRILLER: (b) (4)

BAKER REP.: (b) (4)

BORING NO.: PRA7-Boring A

SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Jeromesville Compressor Station

SO NO.: 22603-JER

BORING NO.:

PRA8-Boring A

COORDINATES: EAST:

NORTH:

ELEVATION: SURFACE:

TOP OF PVC CASING:

Rig: Geoprobe					Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
	MC Liners	Casing	Augers	Core Barrel				
Size (ID)	1-5/8" I.D.	---	--	--	5/21/97	0.0 - 5.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	---	--	--				
Fall	---	---	--	--				

Remarks: Reboiler (TPH, BTEX, Glycol)

SAMPLE TYPE					WELL INFORMATION			
					Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)
S = Split Spoon A = Auger T = Shelby Tube W = Wash R = Air Rotary C = Core D = Denison P = Piston N = No Sample								
Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft., %)	Lab ID	PID (ppm)	Visual Description	Well Installation Detail	Elevation (Ft. MSL)	
1	1.0	S-1	JER-ASB-022-70001	0.0	SILTY CLAY; brown; damp			
	1.5	N			moist			
2	2.5	S-2	JER-ASB-022-70002	0.0				
3		N						
4	4.0				wet/moist			
5	5.0	S-3	JER-ASB-022-70003	0.0		5.0		
					Bottom of Boring 5.0'			
6								
7								
8								
9								
10								

DRILLING CO.: Subsurface, Inc.
DRILLER: (b) (4)BAKER REP.: (b) (4)
BORING NO.: PRA8-Boring A SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Jeromesville Compressor Station

SO NO.: 22603-JER

BORING NO.:

PRA9-Boring A

COORDINATES: EAST:

NORTH:

ELEVATION: SURFACE:

TOP OF PVC CASING:

Rig: Geoprobe					Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
	MC Liners	Casing	Augers	Core Barrel				
Size (ID)	1-5/8" ID.	---	--	--	5/21/97	0.0 - 3.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	---	--	--				
Fall	---	---	--	--				

Remarks: Background (Table I-CWP)

SAMPLE TYPE						WELL INFORMATION			
				Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)		
S = Split Spoon		A = Auger							
T = Shelby Tube		W = Wash							
R = Air Rotary		C = Core							
D = Denison		P = Piston							
N = No Sample									
Depth (Ft.)		Sample Type & No.	Sample Rec. (Ft., %)	Lab ID	PID (ppm)	Visual Description		Well Installation Detail	Elevation (Ft. MSL)
1	1.0	N							
2		S-1		JER-ASB-023-70001	0.0	SILTY CLAY; light brown; damp			
3	3.0								
4						3.0'			
5									
6									
7									
8									
9									
10									

DRILLING CO.: Subsurface, Inc.

DRILLER: (b) (4)

BAKER REP.: (b) (4)

BORING NO.: PRA9-Boring A

SHEET 1 OF 1

Baker**Baker Environmental****TEST BORING RECORD**

PROJECT: Site Characterization at Columbia Gas Transmission - Former Jeromesville Compressor Station

SO NO.: 22603-JER

BORING NO.:

PRA9-Boring B

COORDINATES: EAST: _____

NORTH: _____

ELEVATION: SURFACE: _____

TOP OF PVC CASING: _____

Rig: Geoprobe					Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
	MC Liners	Casing	Augers	Core Barrel				
Size (ID)	1-5/8" I.D.	---	--	--	5/21/97	0.0 - 3.0		--
Length	4.0 feet	---	--	--				
Type	---	---	--	--				
Hammer Wt.	---	---	--	--				
Fall	---	---	--	--				

Remarks: Background (Table 1-CWP)

SAMPLE TYPE						WELL INFORMATION			
Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft., %)	Lab ID	PID (ppm)		Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)
1	N								
1	1.0						1.0		
2	S-1		JER-ASB-024-70001	0.0		SILTY CLAY; light brown; damp			
3	3.0						3.0		
4						Bottom of Boring at 3.0'			
5									
6									
7									
8									
9									
10									

DRILLING CO.: Subsurface Inc.

(b) (4)

BAKER REP.: (b) (4)

BORING NO.: PRA9-Boring B

SHEET 1 OF 1

Baker

Baker Environmental

TEST BORING RECORD

PROJECT: Site Characterization at Columbia Gas Transmission - Former Jeromesville Compressor Station

SO NO.: 22603-JER

BORING NO.:

PRA9-Boring C

COORDINATES: EAST:

NORTH:

ELEVATION: SURFACE:

TOP OF PVC CASING:

Rig: Geoprobe	MC Liners	Casing	Augers	Core Barrel	Date	Progress (Ft.)	Weather	Depth to Water (Ft.)
Size (ID)	1-5/8" I.D.	--	--	--	5/21/97	0.0 - 3.0		--
Length	4.0 feet	--	--	--				
Type	--	--	--	--				
Hammer Wt.	--	--	--	--				
Fall	--	--	--	--				

Remarks: Background (Table 1-CWP)

SAMPLE TYPE						WELL INFORMATION			
						Type	Diam.	Top Depth (Ft.)	Bottom Depth (Ft.)
S = Split Spoon A = Auger									
T = Shelby Tube W = Wash									
R = Air Rotary C = Core									
D = Denison P = Piston									
N = No Sample									
Depth (Ft.)	Sample Type & No.	Sample Rec. (Ft., %)	Lab ID	PID (ppm)		Visual Description	Well Installation Detail		Elevation (Ft. MSL)
1	1.0	N							
2	S-1		JER-ASB-025-70001	0.0		SILTY CLAY; light brown; damp			
3	3.0							3.0	
4						Bottom of Boring at 3.0'			
5									
6									
7									
8									
9									
10									

DRILLING CO.: Subsurface, Inc.

(b) (4)

BAKER REP.: (b) (4)

BORING NO.: PRA9-Boring C

SHEET 1 OF 1

*Worksheet for Site Specific Calculated Background Value for
Arsenic (CBVA) Determination*

II. BACKGROUND CALCULATION

Arsenic Results in Background Samples

a = 17.7 mg/kg
b = 21.1 mg/kg
c = 24.1 mg/kg

n = number of sample results

Background Arsenic Level Calculation

[(a + b + c)/n] x 2 = Background Arsenic Level (BAL), Calculated

[(17.7 + 21.1 + 24.1)/3] x 2 = BAL, Calculated

(62.9/3) x 2 = BAL, Calculated

20.966 x 2 = BAL, Calculated

41.93 mg/kg = BAL, Calculated

III. COMPARISON TO HIGHEST BACKGROUND RESULTS

BAL, Calculated vs. Highest Background Result

41.93 mg/kg vs. 24.1 mg/kg

SITE SPECIFIC BACKGROUND ARSENIC LEVEL = 41.93 mg/kg

*Note: Calculations based on: "Data Collection and Evaluation, Human Health Risk Assessment Bulletin, No. 2, Supplemental Guidance to RAGs," Office of Technical Services, U.S. EPA Region IV, October 1996